CS1 - Loops - Shapes - Lab Possible Points: 100

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Loops - Geometric Shapes - Lab**

The following lab demonstrates the use of loop structures in C++ by drawing various geometric shapes with ASCII characters.

**Lab Instructions:**

1. Open your repo folder (CS1-…) in Visual Studio Code.
2. Create a folder called **loops** inside the **labs** folder.
   1. Inside **loops** folder, create two new files: **main.cpp** & **Makefile**
3. Add new files to git repo; commit and push.
4. Do **add; commit and push** as often as possible after every major improvement or addition to your program so you are familiar with the commands and you’ve a working backup!
5. Use the starter code stub in the main.cpp file as a hint to complete the lab.
6. Type, fix and use the Makefile to build and run the program.
7. Never copy paste code; you’ll not learn anything by doing so!
8. Type some lines of code and use **incremental development** techniques to learn what the new code does; continue the process until you complete your lab.
9. Fix all the FIXMEs and write #fixed# at the end of each code FIXME that’s fixed except at the end of your name and date.
10. Run and test your programs many times.
11. Create a screenshot and add it to the repository showing the complete run of your program. (**10 points**)
12. When done, update your README file **(10 points)** as shown here: <https://github.com/rambasnet/csci000-astudent>
13. All FIXMEs are worth equal points unless stated otherwise.

=========================================================================

**Submission:**

1. Add all the relevant source file(s) and documents into the correct folder and do a final add, commit, and push before the due date.
   1. $ git status
   2. $ git add <filename>… - add each file that was new or modified that is part of this assignment
   3. $ git commit -m “Final Submission”
   4. $ git push
   5. $ git status
2. Check and make sure the files are pushed to your GitHub repo.
3. NOTE: Do not add and commit to this lab folder after the due date as it may be considered late submission!